

*RFD*

24 Apr 64

Dear John:

*Jave  
18am*

Subject: Project Authorization Request - Contract

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1. In accordance with the agreements reached at the  Contract Review Meeting, the following PARS are submitted for your review and approval:

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- a. PAR 203-A, Rapid Access Printer
- b. PAR 204-A, Contact Chip Printer
- c. PAR 205-A, 4X Chip Enlarger
- d. PAR 207-A, Definitive Study of Contact Printers
- e. PAR 225, Microdensitometer Training Program
- f. PAR 226, Analysis of Photographic Images to Evaluate System Performance

2. Per your request, the cost figures, shown on incl. 1, reflect G & A and fee by PAR.

*F. G. F.*  
F. G. F.

7 Incl

1. Est. PAR Cost(5 cpys)
2. PAR 203-A (5 cpys)
3. PAR 204-A (5 cpys)
4. PAR 205-A (5 cpys)
5. PAR 207-A (5 cpys)
6. PAR 225 (5 cpys)
7. PAR 226 (5 cpys)

Declass Review by NGA.

cc: Con Ofr w/one cpy of Incls.

File RFP  
23 June 64

26 March 1964

Dear John:

Re:

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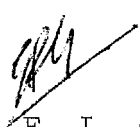
We have been preparing FY 65 budgets for our various activities and have come up with certain ideas which might profitably be considered for  I attach five copies of very brief descriptions and ROM costs.

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The enclosures are not submitted with the idea that you are to approve them as is. If any of the thoughts appeal to you, please let us know and we will submit the necessary PAR's with a more detailed outline, breakdown of expected costs, etc.

See trip report  
dated 23 June 64  
RFD

ELG:atr  
Encl. (5)

  
E. L. G.

FY 65  
BUDGET

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Basis For Budget

Brief summaries follow of seven projects which we are submitting for the FY 65 Budget on Contract

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PAR-229

1. Optical Design for Film Viewing

There is an urgent need for improved definition in variable magnification microscope type viewers for high quality aerial photographs. We propose to explore design possibilities of a system to provide large exit pupils (5mm), improved definition, variable magnification (possibly zoom), restricted wavelength range.

PAR-230

2. 10X Color Lens for the 10-20-40X Enlarger

We propose to explore possible designs for 10X lens suitable for color enlargements on the 10-20-40X Enlarger. Three possible designs are to be considered:

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(1) A 100mm version of the 52mm ELCAN lens

(2) A 100mm version of the Tropel design #5829 corrected for three narrow spectral bands.

(3) A 100mm version of the  Q-111 document reproduction lens.

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PAR-231

3. Redesign the 10-20-40X Precision Enlarger Lamphouse for Color Printing

We propose to design, build and test a lamphouse modification to provide convenient color balance control and the necessary filtering to make color prints on 10-20-40X Enlargers equipped with suitable lenses.

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PAR-232  
4. Automated Edge Trace Device

There is a need for continuing development of instruments to refine and reduce the labor required in Image Quality measurements based upon the analysis of microdensitometer measurements. Examples of the needed developments are:

- (1) A microdensitometer which can accept and scan any point in any azimuth on roll form negatives or prints,
- (2) Automatic focus control in the microdensitometer,
- (3) Automatic recording of data to permit its reduction by the computer, etc.

5. Automation Program Study

In order to expedite the accurate transfer of information from the PI to the Lab Technician, we propose to study the problem of automating the system from the viewing table to the 10-20-40X Enlarger, contact chip printer, 4X chip enlarger and other types of print making equipment.

Breadboards will be constructed to test the ideas developed under the study phase of this program.

6. MTF Exposure Device

We propose to develop and fabricate a device to expose special patterns specifically for use in the measurement of Modulation Transfer Function. This device will produce calibrated exposures of pattern structures ranging from low to high spatial frequencies upon a variety of films as used in modern reconnaissance photography.

PAR-228  
7. Vectograph Study

It is proposed that a study be made of the use of the Vectograph process for production of stereo pairs for PI use in briefing, joint study, etc.

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Approved For Release 2005/02/17 : CIA-RDP78B04770A001000030044-1

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